TEST REPORT ON CEMENT

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	Sri G.Chandrashekar,(Sri Sai Charan Constructions)
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	9/02/2021
Submission Date:	10/02/2021

Test Calculationfor Culvert and Drain Judicial layout

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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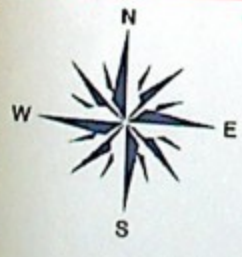

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TEST REPORT ON FINE AGGREGATE

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	Sri G.Chandrashekar,(Sri Sai Charan Constructions)
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	9/02/2021
Submission Date:	10/02/2021

Test Calculation for Culvert and Drain Judicial layout

SAMPLE ID:SandTotalWt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON STEEL

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	Sri G.Chandrashekar,(Sri Sai Charan Constructions)
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	9/02/2021
Submission Date:	10/02/2021

Steel Test Calculation for Culvert and Drain Judicial layout

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834

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3	Proof Stress/Yield Stress fy =N/mm²	538	500	545	500	535	500
4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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Test- Dense Bituminous Macadam

Name of work: Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

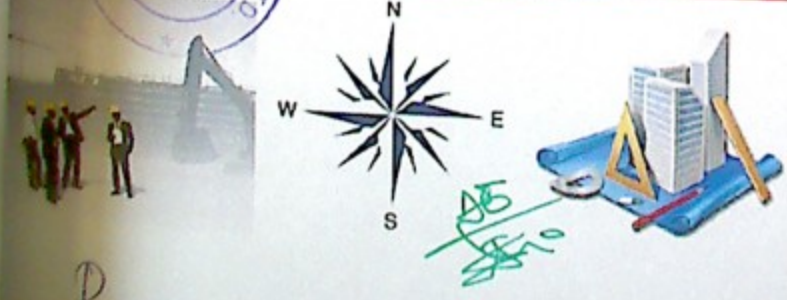
Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 14/03/2021

Physical Requirements for Coarse Aggregate for **Dense Bituminous Macadam**
(As Per MoRTH Table : 500-8)

Sl.No.	Property	Test	Specification	Test Result
1	Cleanliness (dust)	Grain size analysis	Max 5 % passing 0.075 IS-Sieve	Pas.37.5-Ret.24mm- 0.48 Pas. 14 -Ret. 7 mm- 0.88 Pas.24-Ret.14 mm- 0.78
2	Particle shape	Flakiness & Elongation Indices (Combined)	30% Max	25.65
3	Strength	Aggregate Impact Value(AIV)	27 % Max	11.5
4	Durability	Soundness		
		Magnesium Sulphate	Max 18 %	0.70%



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Test- Dense Bituminous Macadam

Name of work: Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 15/03/2021

Physical Requirements for Coarse Aggregate for **Dense Bituminous Macadam**
(As Per MoRTH Table : 500-8)

Sl.No.	Property	Test	Specification	Test Result
1	Cleanliness (dust)	Grain size analysis	Max 5 % passing 0.075 IS-Sieve	Pas.37.5-Ret.24mm- 0.48
				Pas. 14 -Ret. 7 mm- 0.88
				Pas.24-Ret.14 mm- 0.78
2	Particle shape	Flakiness & Elongation Indices (Combined)	30% Max	25.65
3	Strength	Aggregate Impact Value(AIV)	27 % Max	11.5
4	Durability	Soundness		
		Magnesium Sulphate	Max 18 %	0.70%

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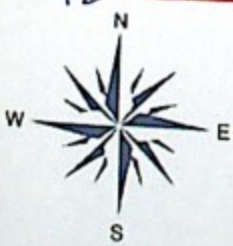

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Test- Dense Bituminous Macadam

Name of work: Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 15/03/2021

Physical Requirements for Coarse Aggregate for **Dense Bituminous Macadam**
(As Per MoRTH Table : 500-8)

Sl.No.	Property	Test	Specification	Test Result
1	Cleanliness (dust)	Grain size analysis	Max 5 % passing 0.075 IS-Sieve	Pas.37.5-Ret.24mm- 0.48
				Pas. 14 -Ret. 7 mm- 0.88
				Pas.24-Ret.14 mm- 0.78
2	Particle shape	Flakiness & Elongation Indices (Combined)	30% Max	25.65
3	Strength	Aggregate Impact Value(AIV)	27 % Max	11.5
4	Durability	Soundness		
		Magnesium Sulphate	Max 18 %	0.70%

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		Sodium sulphate	Max 12 %	0.59%
5	Stripping	Coating and Stripping Bitumen Aggregate Mixtures	Min. Retained Coating 95 %	100
6	Atterberg's Limit (As per 507.2.3)	Plasticity Index	4 %Max	Non-Plastic
7	Water absorption value	Water absorption value	2 % Max	1.08

Properties of Aggregates

Size of Aggregate	Aggregate Proportions	Bulk Sp.Gravity	Apparent Sp.Gravity Water	Absorption
50 - 28 mm	16%	2.853	2.928	0.9
28 - 22 mm	8%	2.849	2.93	0.97
22 - 14 mm	23%	2.861	2.955	1.11
14 - 8 mm	4%	2.854	2.956	1.21
8 mm down	46%	2.85	2.963	1.33
Filler	3%	2.65	-	-

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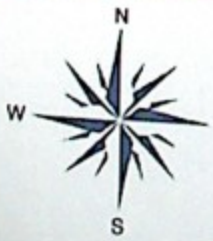

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TEST REPORT ON CEMENT

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	**Sri G.Chandrashekar,(Sri Sai Charan Constructions)**
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	8/02/2021
Submission Date:	10/02/2021

Test Calculationfor Culvert and Drain Judicial layout

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	**Sri G.Chandrashekar,(Sri Sai Charan Constructions)**
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	8/02/2021
Submission Date:	10/02/2021

Test Calculation for Culvert and Drain Judicial layout

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

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Total Wt of Aggregate in Gms: 2300

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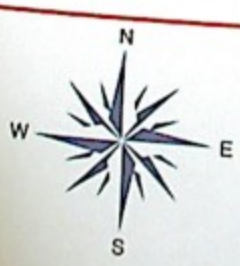

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6	Bend/Re-Bend test	ok	ok	ok

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6	Bend/Re-Bend test	ok	ok	ok

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	**Sri G.Chandrashekar,(Sri Sai Charan Constructions)**
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	2/03/2021
Submission Date:	4/03/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
3.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
6.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
.750		11.07	2.87	83.70	100.00	55.58	40-65	
.360		0.07	0.07	51.03	85.20	39.40	30-50	
.425				18.55	30.70	14.03	10-15	
.075				3.55	3.50	1.97	0-5	

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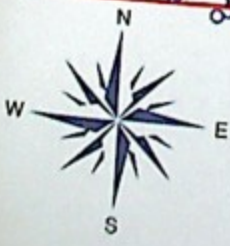

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	**Sri G.Chandrashekar,(Sri Sai Charan Constructions)**
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	1/03/2021
Submission Date:	4/03/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
53.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
26.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
9.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
4.750		11.07	2.87	83.70	100.00	55.58	40-65	
2.360		0.07	0.07	51.03	85.20	39.40	30-50	
0.425				18.55	30.70	14.03	10-15	
0.075				3.55	3.50	1.97	0-5	

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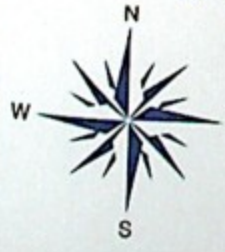

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)
Location:	Judicial layout
Client:	Assistant Executive Engineer Yelahanka Division, BBMP, Bangalore
Name of the Agency:	**Sri G.Chandrashekar,(Sri Sai Charan Constructions)**
Reference:	
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	1/03/2021
Submission Date:	3/03/2021

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
45.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
26.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
9.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
4.750		11.07	2.87	83.70	100.00	55.58	40-65	
2.360		0.07	0.07	51.03	85.20	39.40	30-50	
0.425				18.55	30.70	14.03	10-15	
0.075				3.55	3.50	1.97	0-5	

Mix Design of Granular Sub-Base (GSB). Close Graded - II

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FIELD DENSITY OF WMM

Name of work:Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location : at Judicial layout

Client: Assistant Executive Engineer Division, BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing : 07/03/2021

Test Results – Existing Wet mix Samples

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Judicial layout	2.25	5.15	2.21	5.05	98.21
2	Judicial layout	2.24	5.11	2.20	5.04	98.19
3	Judicial layout	2.24	5.11	2.20	5.03	98.64

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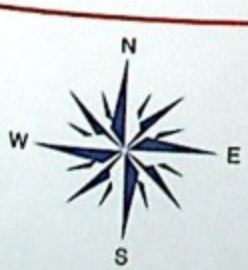

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Material A 20mm = 12%

Material B 1 2.5 mm = 24%

Material C 6.0mm = 6%

Material D 4.75 mm down = 56%

Filler Cement = 2%

Note:-Test and mix design results are for the aggregates and bitumen

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BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

Name of work:Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 21/03/2021

Tests on Bituminous Concrete				
Test No 1				
Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6
Test No 2				

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಪಿ.ಜಿ.ಎಂ.ಕೆ. ಬೆಂಗಳೂರು-106

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BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

Name of work: Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 21/03/2021

Tests on Bituminous Concrete				
Test No 3				
Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	472	28	5.6
2	500	472	28	5.6
Test No 4				

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Sample No	Initial Weight of the Mix [w1], in g	Weight of mix after extraction of Bitumen [w2], in g	Difference in weight, w=[w1-w2], in g	Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %
1	500	471.5	28.5	5.7
2	500	472	28	5.6

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BITUMEN EXTRACTION TEST [FIELD TEST] ON BITUMINOUS CONCRETE

Name of work:Comprehensive development of roads and drains at Aditya nagara, Chikkabettahalli, jyothinagara, munishamappa layout and Judicial layout in ward no 03 & 04 of Yelahanka division (Package No- 05)

location :Judicial layout

Client: Assistant Executive Engineer Yelahanka Division BBMP, Bangalore

Work Order No:- BBMP/EE/YNK.D/EPMT-06/WO/232/2020-21-

Agreement No:- BBMP/EE/YNK.D/EPMT-06/AG/ /2020-21

Agency: Sri G.Chandrashekar,(Sri Sai Charan Constructions)

Date of Testing: 22/03/2021

Tests on Bituminous Concrete				
Test No 1				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**
1	500	471.5	28.5	5.7
2	500	472	28	5.6
Test No 2				
Sample No	**Initial Weight of the Mix [w1], in g**	**Weight of mix after extraction of Bitumen [w2], in g**	**Difference in weight, w=[w1-w2], in g**	**Percentage of Bitumen Extracted = [(w /w1)*100]-100, in %**

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1	500	471.5	28.5	5.7
2	500	472	28	5.6

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